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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/600,535	09/18/2000	Peter J. Sims	160180.90121 7111			
7590 04/26/2006			EXAMINER			
Jean C Baker			VIVLEMORE, TRACY ANN			
Quarles & Brad 411 East Wisco	y nsin Ave Suite 2040	ART UNIT	PAPER NUMBER			
Milwaukee, W	I 53202-4497	1635				
			DATE MAILED: 04/26/200	DATE MAILED: 04/26/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)				
Office Action Summary		09/600,53	5	SIMS ET AL.				
		Examiner		Art Unit				
		Tracy Vivle	emore	1635				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILIN asions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by seply received by the Office later than three months after the red patent term adjustment. See 37 CFR 1.704(b).	G DATE OF TH FR 1.136(a). In no eve n. eriod will apply and wil statute, cause the appli	IS COMMUNICATION nt, however, may a reply be tim I expire SIX (6) MONTHS from location to become ABANDONE!	). lety filed the mailing date of this co D (35 U.S.C. § 133).				
Status	•							
1)[🛛	Responsive to communication(s) filed on g	08 June 2004.						
·								
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠ Claim(s) <u>1-30</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.							
6)	S) Claim(s) is/are rejected.							
7)	7) Claim(s) is/are objected to.							
8)⊠	Claim(s) <u>1-30</u> are subject to restriction and	d/or election req	uirement.					
Applicati	on Papers							
9)	The specification is objected to by the Exa	miner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119			٠				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
				•	•			
Attachmen	tic)							
	e of References Cited (PTO-892)		4) Interview Summary	(PTO-413)				
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948		Paper No(s)/Mail Date  Notice of Informal Patent Application (PTO-152)					
	mation Disclosure Statement(s) (PTO-1449 or PTO/S r No(s)/Mail Date	B/08)	6) Other:	atent Application (PTC	J-15Z)			

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## **DETAILED ACTION**

## Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claim(s) 1-6, drawn to a method for extending the viability of mammalian cells by inhibiting expression of native PL scramblase with an antisense RNA molecule.

Group 2, claim(s) 1-4, 6, 7 in part and 8, drawn to a method for extending the viability of mammalian cells by inhibiting expression of native PL scramblase with a mutant PL scramblase protein.

Group 3, claim(s) 1-4, 6, 7 in part and 9, drawn to a method for extending the viability of mammalian cells by inhibiting expression of native PL scramblase with a truncated form of PL scramblase.

Group 4, claim(s) 1-4, 6 and 10, drawn to a method for extending the viability of mammalian cells by inhibiting expression of PL scramblase by preventing fatty acid acylation of nascent PL scramblase protein.

Group 5, claim(s) 1-4, 6 and 11, drawn to a method for extending the viability of mammalian cells by inhibiting expression of PL scramblase through deacylation of mature PL scramblase protein.

Group 6, claim(s) 12-17, 23, 25 and 26, drawn to a method of decreasing the viability, metastatic or invasive potential of cancer cells, cancerous tissue or viral-infected cell by increasing expression of native PL scramblase by transfection of a PL scramblase coding sequence.

Group 7, claim(s) 12-16, 18, 23 and 26, drawn to a method of decreasing the viability, metastatic or invasive potential of cancer cells, cancerous tissue or viral-infected cell by increasing expression of native PL scramblase by decreasing expression of alternatively spliced transcripts of PL scramblase.

Group 8, claim(s) 12-14, 17, 23, 24 and 26, drawn to a method of decreasing the viability, metastatic or invasive potential of cancer cells, cancerous tissue or viral-

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infected cell by increasing expression of native PL scramblase by activation of the promoter of an endogenous PL scramblase gene.

Group 9, claim(s) 19-21 and 29, drawn to a method of determining the status of a patient's cancer or diagnosing metastatic and invasive potential of a cancer cell or cancerous tissue by analyzing the amount of PL scramblase RNA or protein with oligonucleotide primers based on human PL scramblase.

Group 10, claim(s) 19, 20, 22 and 30, drawn to a method of determining the status of a patient's cancer or diagnosing metastatic and invasive potential of a cancer cell or cancerous tissue by analyzing the amount of PL scramblase RNA or protein with antibodies that bind to PL scramblase protein.

Group 11, claim(s) 27 and 28, drawn to a method of diagnosing metastatic and invasive potential of a cancer cell by analyzing the sequence of a patient's PL scramblase gene for the presence or absence of mutations.

The inventions listed as Groups 1-10 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical feature of group 1 is use of an antisense inhibitor of PL scramblase to extend the viability of mammalian cells. This special technical feature was known in the art at the time of invention. See, for example WO 97/37225 (cited on international search report), which discloses methods of prolonging survival of cells such as blood cells using an inhibitor of PL scramblase. Inhibitors of PL scramblase are disclosed as including antisense oligonucleotides.

The special technical feature of group 1 is use of antisense RNA to inhibit expression of PL scramblase.

The special technical feature of group 2 is use of a mutant PL scramblase protein to inhibit expression of PL scramblase.

The special technical feature of group 3 is use of a truncated form of PL scramblase to inhibit expression of PL scramblase.

The special technical feature of group 4 is prevention of fatty acid acylation of nascent PL scramblase protein to inhibit expression of PL scramblase.

The special technical feature of group 5 is deacylation of mature PL scramblase protein to inhibit expression of PL scramblase.

The special technical feature of group 6 is transfection of a PL scramblase coding sequence to increase expression of PL scramblase.

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The special technical feature of group 7 is decrease of expression of alternatively spliced transcripts of PL scramblase to increase expression of PL scramblase.

The special technical feature of group 8 is activation of the promoter of an endogenous PL scramblase gene to increase expression of PL scramblase.

The special technical feature of group 9 is use of oligonucleotide primers to analyze the amount of PL scramblase RNA.

The special technical feature of group 10 is use of antibodies to human PL scramblase to analyze the amount of PL scramblase RNA.

The special technical feature of group 11 is analysis of the sequence of a patient's PL scramblase gene to diagnose metastatic and invasive potential of a cancer cell.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

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Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tracy Vivlemore whose telephone number is 571-272-2914. The examiner can normally be reached on Mon-Fri 8:45-5:15.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Wang can be reached on 571-272-0811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Tracy Vivlemore Examiner Art Unit 1635

April 17, 2006